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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/069,228DATE: 05/08/98
TIME: 12:48:09

INPUT SET: S25681.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

1 SEQUENCE LISTING
2
3 (1) General Information:
4
5
6 (i) APPLICANT: Gregory Plowman
7 Douglas Clary
8
9
10 (ii) TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
11 Alk-7 RELATED DISORDERS
12
13
14 (iii) NUMBER OF SEQUENCES: 15
15
16
17 (iv) CORRESPONDENCE ADDRESS:
18
19 (A) ADDRESSEE: Lyon & Lyon
20 (B) STREET: 633 West Fifth Street
21 Suite 4700
22 (C) CITY: Los Angeles
23 (D) STATE: California
24 (E) COUNTRY: U.S.A.
25 (F) ZIP: 90071-2066
26
27
28 (v) COMPUTER READABLE FORM:
29
30 (A) MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
31 storage
32 (B) COMPUTER: IBM Compatible
33 (C) OPERATING SYSTEM: IBM P.C. DOS 5.0
34 (D) SOFTWARE: FastSEQ for Windows 2.0
35
36
37 (vi) CURRENT APPLICATION DATA:
38
--> 39 (A) APPLICATION NUMBER: To be assigned
40 (B) FILING DATE: Filed herewith
41 (C) CLASSIFICATION:
42
43
44 (vii) PRIOR APPLICATION DATA:
45
46 (A) APPLICATION NUMBER: 60/044,428

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47 (B) FILING DATE: April 28, 1997
48
4950 (viii) ATTORNEY/AGENT INFORMATION:
5152 (A) NAME: Warburg, Richard J.
53 (B) REGISTRATION NUMBER: 32,327
54 (C) REFERENCE/DOCKET NUMBER: 234/118
55
5657 (ix) TELECOMMUNICATION INFORMATION:
5859 (A) TELEPHONE: (213) 489-1600
60 (B) TELEFAX: (213) 955-0440
61 (C) TELEX: 67-3510
62
63
6465 (2) INFORMATION FOR SEQ ID NO: 1:
6667 (i) SEQUENCE CHARACTERISTICS:
6869 (A) LENGTH: 1793 base pairs
70 (B) TYPE: nucleic acid
71 (C) STRANDEDNESS: single
72 (D) TOPOLOGY: linear
7374 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
75

76 CGGCCACACT GACTAGAGCC AACCGCGCAC TTCAAAAGGG TGTGGTGCC GCGCTCCC	60
77 CCCCGGGCCC GGGAACTTCA AACGGGGCCG TGCTGCCCCG GCTGCCTCGC TCTGCTCTGG	120
78 GGCCTCGCAG CCCCGGGCGC GCCGCCTGGT GCGATGACC CGGGCGCTCT GCTCAGCGCT	180
79 CCGCCAGGCT CTCCCTGCTGC TCCGAGCGGC CGCCGAGCTC TCGCCAGGAC TGAAGTGTGT	240
80 ATGTCTTTG TGTGATTCTT CAAACTTAC CTGCCAAACA GAAGGAGCAT GTTGGGCATC	300
81 AGTCATGCTA ACCAATGGAA AAGAGCAGGT GATCAAATCC TGTGTCTCCC TTCCAGAACT	360
82 GAATGCTCAA GTCTTCTGTC ATAGTTCAA CAATGTTACC AAAACCGAAT GCTGCTTCAC	420
83 AGATTTTGCA AACAAACATAA CACTGCACCT TCCAACAGCA TCACCAAATG CCCCAAAACT	480
84 TGGACCCATG GAGCTGGCCA TCATTATTAC TGTGCCTGTT TGCCTCTGT CCATAGCTGC	540
85 GATGCTGACA GTATGGCAT GCCAGGGTCG ACAGTGCTCC TACAGGAAGA AAAAGAGACC	600
86 AAATGTGGAG GAACCACTCT CTGAGTGCAA TCTGGTAAAT GCTGGAAAAA CTCTGAAAGA	660
87 TCTGATTTAT GATGTGACCG CCTCTGGATC TGGCTCTGGT CTACCTCTGT TGGTTCAAAG	720
88 GACAATTGCA AGGACGATTG TGCTTCAGGA AATAGTAGGA AAAGGTAGAT TTGGTGAGGT	780
89 GTGGCATGGA AGATGGTGTG GGGAAAGATGT GGCTGTGAAA ATATTCTCCT CCAGAGATGA	840
90 AAGATCTTGG TTTCTGTGAGG CAGAAATTAA CCAGACGGTC ATGCTGCGAC ATGAAAACAT	900
91 CCTTGGTTTC ATTGCTGCTG ACAACAAAGA TAATGGAACT TGGACTCAAC TTTGGCTGGT	960
92 ATCTGAATAT CATGAACAGG GCTCCTTATA TGACTATTG AATAGAAATA TAGTGACCGT	1020
93 GGCTGGAATG ATCAAGCTGG CGCTCTCAAT TGCTAGTGGT CTGGCACACC TTCATATGGA	1080
94 GATTGTTGGT ACACAAAGGTA AACCTGCTAT TGCTCATCGA GACATAAAAT CAAAGAATAT	1140
95 CTTAGTGAAA AAGTGTGAAA CTTGTGCCAT AGCGGACTTA GGGTTGGCTG TGAAGCATGA	1200
96 TTCAATACTG AACACTATCG ACATACCTCA GAATCCTAAA GTGGGAACCA AGAGGTATAT	1260
97 GGCTCCTGAA ATGCTTGATG ATACAATGAA TGTGAATATC TTTGAGTCCT TCAAACGAGC	1320
98 TGACATCTAT TCTGTTGGTC TGGTTACTG GGAAATAGCC CGGAGGTGTT CAGTCGGAGG	1380
99 AATTGTTGAG GAGTACCAAT TGCCATTATTA TGACATGGTG CCTCGAGATC CCTCGATAGA	1440

RAW SEQUENCE LISTING
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100 GGAAATGAGA AAGGTTGTTT GTGACCAGAA GTTCGACCA AGTATCCAA ACCAGTGGCA 1500
101 AAGTTGTGAA GCACTCCGAG TCATGGGGAG AATAATGCGT GAGTGTGGT ATGCCAACGG 1560
102 AGCGGCCCCGC CTAACTGCTC TTCTGATTAA GAAGACTATA TCTCAACTTT GTGTCAAAGA 1620
103 AGACTGCAAA GCCTAATGAT GATAATTATG TTAAAAAGAA ATCTCTCATA GCTTTCTTTT 1680
104 CCATTTTCCC CTTTATGTGA ATGTTTTTGC CATTTCCTTT TTGTTCTACC TCAAAGATAA 1740
105 GACAGTACAG TATTAAAGTG CCCATAAGGC AGCATGAAAA GATAACTCTA AAG 1793
106
107
108

109 (2) INFORMATION FOR SEQ ID NO: 2:

110

111 (i) SEQUENCE CHARACTERISTICS:

112

113 (A) LENGTH: 493 amino acids
114 (B) TYPE: amino acid
115 (C) STRANDEDNESS: single
116 (D) TOPOLOGY: linear

117

118 (ii) MOLECULE TYPE: Peptide

119

120 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

121

122 Met Thr Arg Ala Leu Cys Ser Ala Leu Arg Gln Ala Leu Leu Leu Leu
123 1 5 10 15

124

125 Ala Ala Ala Ala Glu Leu Ser Pro Gly Leu Lys Cys Val Cys Leu Leu
126 20 25 30

127

128

129 Cys Asp Ser Ser Asn Phe Thr Cys Gln Thr Glu Gly Ala Cys Trp Ala
130 35 40 45

131

132 Ser Val Met Leu Thr Asn Gly Lys Glu Gln Val Ile Lys Ser Cys Val
133 50 55 60

134

135 Ser Leu Pro Glu Leu Asn Ala Gln Val Phe Cys His Ser Ser Asn Asn
136 65 70 75 80

137

138 Val Thr Lys Thr Glu Cys Cys Phe Thr Asp Phe Cys Asn Asn Ile Thr
139 85 90 95

140

141 Leu His Leu Pro Thr Ala Ser Pro Asn Ala Pro Lys Leu Gly Pro Met
142 100 105 110

143

144 Glu Leu Ala Ile Ile Ile Thr Val Pro Val Cys Leu Leu Ser Ile Ala
145 115 120 125

146

147 Ala Met Leu Thr Val Trp Ala Cys Gln Gly Arg Gln Cys Ser Tyr Arg
148 130 135 140

149

150 Lys Lys Lys Arg Pro Asn Val Glu Glu Pro Leu Ser Glu Cys Asn Leu
151 145 150 155 160

152

RAW SEQUENCE LISTING
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153 Val Asn Ala Gly Lys Thr Leu Lys Asp Leu Ile Tyr Asp Val Thr Ala
154 165 170 175
155
156 Ser Gly Ser Gly Ser Gly Leu Pro Leu Leu Val Gln Arg Thr Ile Ala
157 180 185 190
158
159 Arg Thr Ile Val Leu Gln Glu Ile Val Gly Lys Gly Arg Phe Gly Glu
160 195 200 205
161
162 Val Trp His Gly Arg Trp Cys Gly Glu Asp Val Ala Val Lys Ile Phe
163 210 215 220
164
165 Ser Ser Arg Asp Glu Arg Ser Trp Phe Arg Glu Ala Glu Ile Tyr Gln
166 225 230 235 240
167
168 Thr Val Met Leu Arg His Glu Asn Ile Leu Gly Phe Ile Ala Ala Asp
169 245 250 255
170
171 Asn Lys Asp Asn Gly Thr Trp Thr Gln Leu Trp Leu Val Ser Glu Tyr
172 260 265 270
173
174 His Glu Gln Gly Ser Leu Tyr Asp Tyr Leu Asn Arg Asn Ile Val Thr
175 275 280 285
176
177 Val Ala Gly Met Ile Lys Leu Ala Leu Ser Ile Ala Ser Gly Leu Ala
178 290 295 300
179
180 His Leu His Met Glu Ile Val Gly Thr Gln Gly Lys Pro Ala Ile Ala
181 305 310 315 320
182
183 His Arg Asp Ile Lys Ser Lys Asn Ile Leu Val Lys Lys Cys Glu Thr
184 325 330 335
185
186 Cys Ala Ile Ala Asp Leu Gly Leu Ala Val Lys His Asp Ser Ile Leu
187 340 345 350
188
189 Asn Thr Ile Asp Ile Pro Gln Asn Pro Lys Val Gly Thr Lys Arg Tyr
190 355 360 365
191
192
193 Met Ala Pro Glu Met Leu Asp Asp Thr Met Asn Val Asn Ile Phe Glu
194 370 375 380
195
196 Ser Phe Lys Arg Ala Asp Ile Tyr Ser Val Gly Leu Val Tyr Trp Glu
197 385 390 395 400
198
199 Ile Ala Arg Arg Cys Ser Val Gly Gly Ile Val Glu Glu Tyr Gln Leu
200 405 410 415
201
202 Pro Tyr Tyr Asp Met Val Pro Ser Asp Pro Ser Ile Glu Glu Met Arg
203 420 425 430
204
205 Lys Val Val Cys Asp Gln Lys Phe Arg Pro Ser Ile Pro Asn Gln Trp

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206 435 440 445
207
208 Gln Ser Cys Glu Ala Leu Arg Val Met Gly Arg Ile Met Arg Glu Cys
209 450 455 460
210
211 Trp Tyr Ala Asn Gly Ala Ala Arg Leu Thr Ala Leu Arg Ile Lys Lys
212 465 470 475 480
213
214 Thr Ile Ser Gln Leu Cys Val Lys Glu Asp Cys Lys Ala
215 485 490
216
217
218
219 (2) INFORMATION FOR SEQ ID NO: 3:
220
221 (i) SEQUENCE CHARACTERISTICS:
222
223 (A) LENGTH: 8 amino acids
224 (B) TYPE: amino acid
225 (C) STRANDEDNESS: single
226 (D) TOPOLOGY: linear
227
228 (ii) MOLECULE TYPE: Peptide
229
230 (ix) FEATURE:
231
232 (D) OTHER INFORMATION: "Xaa" in positions 6 and 7 stand
233 for an unspecified amino acid.
234
235 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
236
237 His Arg Asp Leu Lys Xaa Xaa Asn
238 1 5
239
240
241
242 (2) INFORMATION FOR SEQ ID NO: 4:
243
244 (i) SEQUENCE CHARACTERISTICS:
245
246 (A) LENGTH: 23 base pairs
247 (B) TYPE: nucleic acid
248 (C) STRANDEDNESS: single
249 (D) TOPOLOGY: linear
250
251 (ix) FEATURE:
252
253 (D) OTHER INFORMATION: The letter "R" stands for A or G.
254 The letter "N" stands for Inosine.
255
256
257 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
258

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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/069,228

DATE: 05/08/98
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Line	Error	Original Text
39	Wrong application Serial Number	(A) APPLICATION NUMBER: To be assigned

000069228 - 042798